



# Dimensional Specifications for Reaming Shells

## Set Diameters for Reaming Shells

The term “set diameter” refers to the dimension of the matrix body gauge ring diameter on which diamonds (or synthetic PCD particles) and tungsten-carbide elements have been physically set in order to preserve this dimension during drilling. The specifications for set diameter tolerances to which Dimatec manufactures reaming shells are given in the following tables.

<b>E-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
EWG, EWM, EWT (EXT), IEW, IEWS, TEW	1.490 / 1.480	37.85 / 37.59

<b>A-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
AQ, AQTK, AGM, AWG, AWM, AWT (AXT), TAW, ATK34 (AW34), AXC (AWC3), IAW, IAWS, JKT48, LTK48	1.895 / 1.885	48.13 / 47.88

<b>B-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
BQ, BQTK, BGM, BWG, BWM, BX, BWT, TBW, BTK44 (BW44), BXB (BWC3), LTK60	2.365 / 2.355	60.07 / 59.82

<b>B-Gauge Oversize Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
BQ (2.400), BQTK (2.400), BGM (2.400), BXB (2.400), BTK44 (2.400)	2.405 / 2.395	61.09 / 60.83

<b>N-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
NQ, NGM, NWG, NWM, NX, NMLC, TNW, T6-N, NXB (NWC3), NWD4, CHD76	2.985 / 2.975	75.82 / 75.57

<b>Other N-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
N-Devico (DeviDrill Wireline 76)	2.975/2.970	75.57 / 75.44

<b>N-Gauge Oversize Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
NQ (3.032), NGM (3.032), NXB (3.032), NWD4 (3.032)	3.037 / 3.027	77.14 / 76.89

<b>H-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
HXB (HWD3), HWD4	3.655 / 3.645	92.84 / 92.58
HQ, HTW	3.790 / 3.775	96.27 / 95.89
HWF, HWG, HWT, HX, T6-H	3.912 / 3.902	99.36 / 99.11
CHD101	3.997 / 3.982	101.52 / 101.14

<b>H-Gauge Oversize Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
HXB (3.750), HWD4 (3.750)	3.760 / 3.745	95.50 / 95.12
HQ (3.830)	3.840 / 3.825	97.54 / 97.16

<b>P-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
PQ	4.835 / 4.820	122.81 / 122.43
PWF	4.755 / 4.740	120.78 / 120.40

<b>S-Gauge Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
Geobor-S	5.772 / 5.757	146.60 / 146.22
SWF	5.755 / 5.740	146.18 / 145.80

<b>B (ISO 3552-1), T, TT, T2, T6 and WL-Type Metric Reaming Shells</b>		
Size	Set Diameter	
	Inch	mm
B36, T36	1.433 / 1.425	36.40 / 36.20
B46, TT46, T2-46	1.827 / 1.819	46.40 / 46.20
B56, TT56, T2-56	2.220 / 2.212	56.40 / 56.20
WL56/39	2.241 / 2.231	56.92 / 56.67
B66, T2-66	2.614 / 2.604	66.40 / 66.14
B76, T2-76, T6-76	3.012 / 3.000	76.50 / 76.20
B86, T2-86, T6-86	3.406 / 3.394	86.50 / 86.20
B101, T2-101, T6-101	3.996 / 3.984	101.50 / 101.20
B116, T6-116	4.590 / 4.575	116.60 / 116.20
B131, T6-131	5.180 / 5.165	131.57 / 131.19
B146, T6-146	5.772 / 5.757	146.60 / 146.22

<b>Reaming Shells for Large Diameter DCDMA Core Barrels</b>		
Size	Set Diameter	
	Inch	mm
2-3/4 x 3-7/8 DCDMA	3.880 / 3.870	98.55 / 98.30
4 x 5-1/2 DCDMA	5.500 / 5.490	139.70 / 139.45
6 x 7-3/4 DCDMA	7.755 / 7.740	196.98 / 196.60

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The technical application data in this document is intended as a basic guideline for the selection of the appropriate tools for your job. As drilling conditions and the capabilities of drilling equipment vary considerably from site to site, it is impossible to define absolute parameters for the application of our drilling tools. Some experimentation on the part of the end user may be required as parameters outside those recommended in Dimatec's product literature may be applicable. Every effort has been made to ensure the accuracy of the data contained in this document. Dimatec Inc. cannot accept any liability due to errors or omissions in the data we provide. Dimatec Inc. is constantly working to improve our products and therefore reserve the right to make changes to materials, specifications, prices and technical data without prior notice.

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